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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application No. 09/540,524	)	
Filed: March 31, 2000	)	Art Unit: 2862
Confirmation No.: 1816	)	Examiner: T. Fetzner
Inventors: J. Tamez-Peña et al	)	Docket No.: 116741-00138
Title: MAGNETIC RESONANCE IMAGING	)	(was 000687.00138)
WITH RESOLUTION AND CONTRAST	)	
ENHANCEMENT	)	

**SUPPLEMENTAL AMENDMENT AND RESPONSE TO OFFICE ACTION**

Hon. Commissioner for Patents  
Box Non-Fee Amendment  
Washington, D.C. 20231

Sir:

Please amend the above-captioned application as follows:

**In the claims:**

Kindly cancel claims 11 and 38 without prejudice to the disclaimer thereof. Copies of the amended claims marked to show changes are attached hereto beginning on a separate sheet.

1. (Amended) A method of forming an isotropic, high-resolution, three-dimensional image of a subject, the method comprising:

(a) scanning the subject in a first direction relative to the subject to take image data of a first plurality of slices, the image data of the first plurality of slices having a low resolution in the first direction and a high resolution in directions orthogonal to the first direction;

(b) scanning the subject in a second direction relative to the subject which is different from the first direction to take image data of a second plurality of slices, the image data of the